



US 40 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION TO HOWARD COUNTY

U/G I/C TO INGLESIDE AVE

US 40 EB (BALTIMORE NATIONAL PIKE)

US 40 WB (BALTIMORE NATIONAL PIKE)

U/G I/C TO ST. AGNES LANE

TO BALTIMORE CITY

CONSTRUCTION DETAILS

- A. INSTALL 21' STEEL POLE WITH A 70' MAST ARM, FOUNDATION, LED TRAFFIC SIGNALS, VIDEO DETECTION CAMERA, AND SIGNS (NOTE: 1-3", 90 DEGREE PVC BEND.)
- B. INSTALL 21' STEEL POLE WITH A 60' MAST ARM, FOUNDATION, LED TRAFFIC SIGNALS, VIDEO DETECTION CAMERA, LED COUNTDOWN PEDESTRIAN SIGNAL HEADS (NOTE: 1-3", 90 DEGREE PVC BEND.)
- C. INSTALL 21' STEEL POLE WITH A 70' MAST ARM, FOUNDATION, LED TRAFFIC SIGNALS, VIDEO DETECTION CAMERA, SIGNS, AND LED COUNTDOWN PEDESTRIAN SIGNAL HEADS (NOTE: 1-3", 90 DEGREE PVC BEND.)
- D. INSTALL 21' STEEL POLE WITH A 38' MAST ARM, FOUNDATION, LED TRAFFIC SIGNALS, VIDEO DETECTION CAMERA, LED COUNTDOWN PEDESTRIAN SIGNAL HEAD (NOTE: 1-3", 90 DEGREE PVC BEND.)
- E. INSTALL CONCRETE FOUNDATION WITH 10 FT. STEEL PEDESTAL POLE WITH MODIFIED BREAKAWAY BASE STANDARD NO. MD 801.01-01, LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, AND AUDIBLE/TACTILE PUSHBUTTON WITH R10-3(1) SIGN (NOTE: 1-2", 90 DEGREE PVC BEND.)
- F. INSTALL CONCRETE FOUNDATION WITH 10 FT. STEEL PEDESTAL POLE (CUT TO 5 FT.) WITH MODIFIED BREAKAWAY BASE STANDARD NO. MD 801.01-01, AND AUDIBLE/TACTILE PUSHBUTTON WITH R10-3(1) SIGN (NOTE: 1-2", 90 DEGREE PVC BEND.)
- G. INSTALL NEMA SIZE 6 BASE MOUNTED CABINET AND MASTER/LOCAL CONTROLLER WITH ALL NECESSARY EQUIPMENT (NOTE: 2-2" AND 2-4" 90 DEGREE PVC BENDS.)
- H. 3" PVC ELECTRICAL CONDUIT (SCHED. 80) - BORED, INSTALLED UNDER INTERCONNECT PLAN.
- I. INSTALL 100 AMP METERED SERVICE PEDESTAL (NOTE: 1-4" AND 3-2", 90 DEGREE PVC BENDS.)
- J. INSTALL 3" PVC ELECTRICAL CONDUIT (SCHED. 80) - TRENCHED.
- K. INSTALL 4" PVC ELECTRICAL CONDUIT (SCHED. 80) - TRENCHED, FOR PROPOSED UNDERGROUND POWER. CAP AND MARK CONDUIT AND LEAVE A 1' STUB WITH PULL STRING AT UTILITY POLE FOR USE BY OTHERS.
- L. INSTALL 4" PVC ELECTRICAL CONDUIT (SCHED. 80) - TRENCHED, FOR PROPOSED UNDERGROUND TELEPHONE SERVICE. CAP AND MARK CONDUIT AND LEAVE A 1' STUB WITH PULL STRING AT UTILITY POLE FOR USE BY OTHERS.
- M. INSTALL 2" PVC ELECTRICAL CONDUIT (SCHED. 80) - TRENCHED.
- N. INSTALL 4" PVC ELECTRICAL CONDUIT (SCHED. 80) - BORED.
- O. INSTALL 2" PVC ELECTRICAL CONDUIT (SCHED. 80) - TRENCHED, INSTALLED UNDER INTERCONNECT PLAN.
- P. INSTALL 4" PVC ELECTRICAL CONDUIT (SCHED. 80) - TRENCHED, INSTALLED UNDER INTERCONNECT PLAN.
- Q. REMOVE EXISTING HANDHOLE FRAME AND COVER 12 IN. BELOW GRADE AND BACKFILL.
- R. REMOVE EXISTING HANDHOLE FRAME AND COVER 12 IN. BELOW GRADE, BACKFILL AND ABANDON EX. CONDUIT.
- S. INSTALL 12 IN. WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR CROSSWALKS.
- T. INSTALL 24 IN. WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (STOP LINE).
- U. INSTALL GROUND MOUNTED SIGN ON ONE(1) 4 IN. X 6 IN. WOOD POST SUPPORT.
- V. HANDHOLE REMOVED, EX. CONDUIT CAPPED AND ABANDON UNDER INTERCONNECT PLAN.
- W. INSTALL MICRO LOOP PROBE SET.
- X. INSTALL 1 IN. LIQUID-TIGHT FLEXIBLE NON-METALLIC ELECTRICAL CONDUIT. (FOR DETECTOR WIRE SLEEVE)
- Y. REMOVE EXISTING GROUND MOUNTED SIGN.
- Z. NON-INVASIVE MICRO LOOP PROBE SET INSTALLED UNDER INTERCONNECT PLAN.
- aa. INSTALL 1 IN. ELECTRICAL CONDUIT - GALVANIZED SLEEVE.

GEOMETRIC LEGEND

- SD - STORM DRAIN
- G - GAS MAIN
- W - WATER MAIN
- SAN - SEWER MAIN
- E - ELECTRIC CABLES
- A - AERIAL CABLES
- T - TELEPHONE CABLES
- FO - FIBER-OPTIC

UTILITY LEGEND

- SD - STORM DRAIN
- G - GAS MAIN
- W - WATER MAIN
- SAN - SEWER MAIN
- E - ELECTRIC CABLES
- A - AERIAL CABLES
- T - TELEPHONE CABLES
- FO - FIBER-OPTIC

PREPARED BY

URS

HUNT VALLEY, MARYLAND

- GENERAL NOTES**
- ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS. HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS, TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
 - THE CONTRACTOR SHALL CONTACT MISS UTILITY TO VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING PROPOSED SIGNAL EQUIPMENT. ANY UTILITY CONFLICTS SHOULD ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
 - THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE LOCATIONS PRIOR TO INSTALLATION.
 - ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE NEW SIGNAL.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLES TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
 - VIDEO CAMERA LOCATION/ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
 - PUSHBUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR REACHING LESS THAN 18" FROM A 60" X 60" LEVEL LANDING AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2%.
 - THE 10' SEPARATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM FACE OF PUSHBUTTON TO FACE OF PUSHBUTTON, NOT CENTER TO CENTER OF POLE.
 - PUSHBUTTON ARROWS ARE TO BE PARALLEL TO THE CROSSING FOR WHICH THEY ARE INTENDED.
 - LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS MUST MEET LOCATION REQUIREMENTS OF MUTCD SEC. 4E.09 AND FIG. 4E-2 AND THE NCHRP PUBLICATION, "ACCESSIBLE PEDESTRIAN SIGNALS: GUIDE TO BEST PRACTICE". IF NOT MET, THE CONTRACTOR IS STOP WORK ON PUSHBUTTON LOCATIONS UNTIL A DESIGN WAIVER IS OBTAINED, APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.
 - ALL TRAFFIC SIGNAL MODIFICATIONS SHALL CONSTRUCTED PRIOR TO SIDEWALK INSTALLATION.

APPROVALS

TEAM LEADER _____

ASST. DIR. CHIEF _____

DIVISION CHIEF _____

OFFICE DIRECTOR _____

REVISIONS

NO.	DESCRIPTION	DATE
1	FULL TRAFFIC SIGNAL RECONSTRUCTION CONTRACT SHA NO. B8875177 TIM # K132	9/20/11
2	AS BUILT	5/1/1997
3		
4		
5		

STATE OF MARYLAND

DEPARTMENT OF TRANSPORTATION

STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY

TRAFFIC ENGINEERING DESIGN DIVISION

US 40 (BALTIMORE NATIONAL PIKE) AND JOHNNYCAKE ROAD/ACADEMY ROAD

CATONSVILLE, MARYLAND

TRAFFIC SIGNALIZATION PLAN

SCALE: 1" = 20' ADVERTISED DATE: 5/1/992 CONTRACT NO.: B-286-485

DESIGNED BY: B. Thompson COUNTY: BALTIMORE

DRAWN BY: B. Thompson LOGMILE: 03004003.22

CHECKED BY: _____ TIMS NO. _____

F.A.P. NO. _____ TOD NO. _____

TS NO. 887B DRAWING SP-1 OF SP-2 SHEET NO. 26 OF 36